



ELSEVIER

Author index

- Abend, G., see Hess, T.R.
Adachi, H., see Endo, M.
Adachi, H., see Satoh, H.
Adsool, A.D., see Sharma, R.B.
Al-Kassab, T., M.-P. Macht, V. Naundorf,
H. Wollenberger, S. Chambreland, F.
Danoix and D. Blavette, Characterization
of sputter-deposited multilayers of
Ni and Zr with APFIM/TAP
Anderson, I.M., see Miller, M.K.
Anderson, I.M., see Miller, M.K.
Andrén, H.-O., see Ivchenko, V.A.
Andrén, H.-O., see Lundin, L.
Andrén, H.-O., see Zackrisson, J.
Andrén, H.-O., see Kvist, A.
Athenstaedt, W. and M. Leisch, The segre-
gation behaviour of a Pt₉₀Rh₁₀ alloy
studied with a three-dimensional atom-
probe
Auger, P., see Bigot, A.
- Babu, S.S., S.A. David and M.K. Miller,
Microstructural development in PWA-
1480 electron beam welds – an atom
probe field ion microscopy study
Bajikar, S.S., T.F. Kelly and P.P. Camus,
Electrostatic analysis of local-electrode
atom probes
Bakhtizin, R.Z., J. Kishimoto, T. Hashizume
and T. Sakurai, STM study of Sr adsorp-
tion on Si(100) surface
Bas, P., A. Bostel, G. Grancher, B. Deconihout
and D. Blavette, Analytic treatment
of charge cloud overlaps: an improve-
ment of the tomographic atom probe
efficiency
Beben, J., see Suchorski, Yu.
Belyavsky, B.A., see Zhirnov, V.V.
Bentley, J., see Miller, M.K.
Bigot, A., F. Danoix, P. Auger, D. Blavette
and A. Menand, 3D reconstruction and
analysis of GP zones in Al–1.7Cu (at%):
a tomographic atom probe investigation
Blavette, D., see Bigot, A.
Blavette, D., see Schmuck, C.
- 94/95 (1996) 238
94/95 (1996) 113
94/95 (1996) 247
94/95 (1996) 177
94/95 (1996) 306
94/95 (1996) 288
94/95 (1996) 391
94/95 (1996) 267
94/95 (1996) 320
94/95 (1996) 351
94/95 (1996) 356
94/95 (1996) 403
94/95 (1996) 261
94/95 (1996) 280
94/95 (1996) 464
94/95 (1996) 478
94/95 (1996) 442
94/95 (1996) 207
94/95 (1996) 144
94/95 (1996) 391
94/95 (1996) 261
94/95 (1996) 261
94/95 (1996) 273
- Blavette, D., see Al-Kassab, T.
Blavette, D., see Thuvander, M.
Blavette, D., see Bas, P.
Block, J.H., see Reckzügel, M.C.
Block, J.H., see Medvedev, V.K.
Block, J.H., see Suchorski, Yu.
Block, J.H., see Reckzügel, M.C.
Block, J.H., see Suchorski, Yu.
Block, J.H., see Hess, T.R.
Bonin, B., see Maïssa, S.
Bormatova, L., see Zhirnov, V.V.
Bostel, A., see Stiller, K.
Bostel, A., see Deconihout, B.
Bostel, A., see Bas, P.
Bouet, M., see Deconihout, B.
Camus, P.P., see Larson, D.J.
Camus, P.P., see Bajikar, S.S.
Caron, P., see Schmuck, C.
Cerezo, A., J.M. Hyde, S.J. Sijbrandij and
G.D.W. Smith, Data analysis in the opti-
cal PoSAP
Cerezo, A., see Sijbrandij, S.J.
Chambreland, S., see Al-Kassab, T.
Chambreland, S., see Duval, S.
Chan, D.K., D.N. Seidman and K.L. Merkle,
The chemistry and structure of {222}
CdO/Ag heterophase interfaces on an
atomic scale
Chang, C.S., see Tsong, T.T.
Charbonnier, F., Developing and using the
field emitter as a high intensity electron
source
Chen, C.L., T.T. Tsong and T.E. Mitchell,
Surface diffusion and surface atomic
roughness on Ir(001) surface and ter-
races
Choi, W.B., see Zhirnov, V.V.
Cocke, D.L., see Hess, T.R.
Cuomo, J.J., see Zhirnov, V.V.
- 94/95 (1996) 306
94/95 (1996) 343
94/95 (1996) 442
94/95 (1996) 194
94/95 (1996) 200
94/95 (1996) 207
94/95 (1996) 212
94/95 (1996) 217
94/95 (1996) 238
94/95 (1996) 136
94/95 (1996) 144
94/95 (1996) 326
94/95 (1996) 422
94/95 (1996) 442
94/95 (1996) 422
94/95 (1996) 434
94/95 (1996) 464
94/95 (1996) 273
94/95 (1996) 457
94/95 (1996) 428
94/95 (1996) 306
94/95 (1996) 449
94/95 (1996) 409
94/95 (1996) 472
94/95 (1996) 26
94/95 (1996) 224
94/95 (1996) 123
94/95 (1996) 238
94/95 (1996) 123
94/95 (1996) 68
94/95 (1996) 107
94/95 (1996) 261
94/95 (1996) 273

- Danoix, F., see Al-Kassab, T.
 Danoix, F., see Stiller, K.
 David, S.A., see Babu, S.S.
 De Castilho, C.M.C., see Mollicone, M.M.
 Deconihout, B., P. Gerard, M. Bouet and A. Bostel, Improvement of the detection efficiency of channel plate electron multiplier for atom probe application
 Deconihout, B., see Bas, P.
 Deconihout, B., see Duval, S.
 Dolin, D.E., see Suvorov, A.L.
 Duval, S., S. Chambreland and B. Deconihout, Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu₃Au
 Endo, M., H. Nakane and H. Adachi, Fabrication of transition metal nitride field emitters
 Filip, V., see Nicolaescu, D.
 Filip, V., see Nicolaescu, D.
 Forbes, R.G., Field-ion imaging old and new
 Forbes, R.G., H.J. Kreuzer and R.L.C. Wang, On the theory of helium field adsorption
 Forbes, R.G., Some comments on the simultaneous desorption of ³He and ⁴He
 Fouaidy, M., see Maïssa, S.
 Fransen, M.J., E.P.N. Damen, C. Schiller, T.L. van Rooy, H.B. Groen and P. Kruit, Characterization of ultrasharp field emitters by projection microscopy
 Fursey, G., Early field emission studies of semiconductors
 Galdetsky, A.V., see Zhirnov, V.V.
 Gerard, P., see Deconihout, B.
 Givargizov, E.I., V.V. Zhirnov, A.N. Stepanova, P.S. Plekhanov and R.I. Kozlov, Field emission characteristics of polycrystalline and single-crystalline diamond grown on Si tips
 Givargizov, E.I., see Zhirnov, V.V.
 Godfrey, T.J., see Sijbrandij, S.J.
 Gorodetskii, V., see Reckzügel, M.C.
 Gorshkov, V.N., see Vladimirov, V.V.
 Grancher, G., see Bas, P.
 Groen, H.B., see Fransen, M.J.
 Habermann, T., see Pupeter, N.
 Hashizume, T., see Bakhtizin, R.Z.
 Hashizume, T., see Jeon, D.
 Hata, K., F. Nakayama, Y. Saito and A. Ohshita, Control of formation sites for liquid-Li cones on a W<100> tip by means of the remolding method
 Hauet, A., see Schmuck, C.
 Hess, T.R., D.L. Cocke, G. Abend and J.H. Block, Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr
 Hono, K., see Ringer, S.P.
 Hren, J.J., see Zhirnov, V.V.
 Hyde, J.M., see Cerezo, A.
 Ivchenko, V.A., A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller, AP-FIM analysis of ordered Cu₃Au-(4 at% Pt) alloy
 Jeon, D., T. Hashizume and T. Sakurai, Scanning tunneling microscopy of charge transfer on the Si(111)7 × 7 surface
 Joag, D.S., see Sharma, R.B.
 Junquera, T., see Maïssa, S.
 Kamei, K., see Katsuki, F.
 Katsuki, F. and K. Kamei, STM observation of rapidly cooled Si(111) vicinal surfaces
 Kelly, T.F., see Larson, D.J.
 Kelly, T.F., see Bajikar, S.S.
 Kirschner, A., see Pupeter, N.
 Kishimoto, J., see Bakhtizin, R.Z.
 Konopsky, V.N., S.K. Sekatskii and V.S. Letokhov, Laser photoelectron projection microscopy with subwavelength spatial resolution
 Kozlov, R.I., see Givargizov, E.I.
 Kreuzer, H.J., see Forbes, R.G.
 Kruit, P., see Fransen, M.J.
 Kruse, N., see Voss, C.
 Kvist, A., H.-O. Andrén and L. Lundin, A specimen preparation technique for atom probe analysis of the near-surface region of cemented carbides
 Kvist, A., see Ivchenko, V.A.
 Larson, D.J., P.P. Camus and T.F. Kelly, Optimal field pulsing for atom probes with counter electrodes
 Le Goff, A., see Maïssa, S.
 Leisch, M., see Athenstaedt, W.
 Letokhov, V.S., see Konopsky, V.N.
 Lindahl, P., see Zackrisson, J.
 Lundin, L. and H.-O. Andrén, Observation of molybdenum-nitrogen clustering in highly alloyed martensite
 Lundin, L., see Kvist, A.
 Luong, M., see Maïssa, S.

- Lusby, T.A. and A.J. Melmed, Nanocrystallization of a Co–Nb–B–C metallic glass 94/95 (1996) 300
- Macht, M.-P., see Al-Kassab, T.
- Mahner, E., see Pupeter, N.
- Maïssa, S., T. Junquera, M. Fouaidy, A. Le Goff, B. Bonin, M. Luong, H. Safa and J. Tan, Study of luminous phenomena observed on contaminated metallic surfaces submitted to high RF fields 94/95 (1996) 136
- Medvedev, V.K., Yu. Suchorski and J.H. Block, Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip 94/95 (1996) 200
- Medvedev, V.K., see Suchorski, Yu.
- Medvedev, V.K., see Suchorski, Yu.
- Melmed, A.J., Recollections of Erwin Müller's laboratory: the development of FIM (1951–1956) 94/95 (1996) 207
- Melmed, A.J., see Lusby, T.A.
- Menand, A., see Bigot, A.
- Menand, A., see Thuvander, M.
- Merkle, K.L., see Chan, D.K.
- Miller, M.K., I.M. Anderson and K.F. Russell, Precipitation and grain boundary segregation in molybdenum-doped NiAl 94/95 (1996) 217
- Miller, M.K. and K.F. Russell, APFIM characterization of a high phosphorus Russian RPV weld 94/95 (1996) 17
- Miller, M.K., I.M. Anderson, J. Bentley and K.F. Russell, Phase separation in the Fe–Cr–Ni system 94/95 (1996) 300
- Miller, M.K. and K.F. Russell, Comparison of the rate of decomposition in Fe–45%Cr, Fe–45%Cr–5%Ni and duplex stainless steels 94/95 (1996) 261
- Miller, M.K., see Babu, S.S.
- Miller, M.K., see Thomson, R.C.
- Miller, M.K., see Pareige, P.J.
- Miller, M.K., see Pareige, P.
- Mitchell, T.E., see Chen, C.L.
- Mitterauer, J., Field emission from thin liquid metal films 94/95 (1996) 343
- Mollicone, M.M., L.C.O. Dacal and C.M.C. de Castilho, Local field and potential barrier in tunneling processes 94/95 (1996) 409
- Mousa, M.S., Electron emission from carbon fibre tips 94/95 (1996) 288
- Mozyrsky, D.V., see Vladimirov, V.V.
- Müller, G., see Pupeter, N.
- Murakami, H., see Read, H.G.
- Nakane, H., see Endo, M.
- Nakane, H., see Satoh, H.
- Nakayama, F., see Hata, K.
- Naundorf, V., see Al-Kassab, T.
- Nicolaescu, D., V. Filip and P.R. Wilshaw, Modelling of the field emission mi-
- crotriode with emitter covered with porous silicon 94/95 (1996) 79
- Nicolaescu, D. and V. Filip, Modelling of a magnetic sensor based on vacuum field emission 94/95 (1996) 87
- Nishikawa, K., T. Nishiuchi, M. Yamamoto and O. Nishikawa, Observation of both Ni and Mo atom images by FIM with imaging plates 94/95 (1996) 295
- Nishikawa, O., see Nishikawa, K.
- Nishiuchi, T., see Nishikawa, K.
- Ohshita, A., see Hata, K.
- Pareige, P. and M.K. Miller, Characterization of neutron-induced copper-enriched clusters in pressure vessel steel weld: an APFIM study 94/95 (1996) 370
- Pareige, P.J., K.F. Russell and M.K. Miller, APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation 94/95 (1996) 362
- Piel, H., see Pupeter, N.
- Plekhanov, P.S., see Givargizov, E.I.
- Plekhanov, P.S., see Zhirnov, V.V.
- Polmear, I.J., see Ringer, S.P.
- Pradeep, N., see Sharma, R.B.
- Pupeter, N., T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel, Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes 94/95 (1996) 94
- Read, H.G. and H. Murakami, Microstructural influences on the decomposition of an Al-containing ferritic stainless steel 94/95 (1996) 334
- Reckzügel, M.C., V. Gorodetskii and J.H. Block, Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip 94/95 (1996) 194
- Reckzügel, M.C. and J.H. Block, NLSDA calculations for H_3 on Rh_5 including high electric fields: Could linear H_3 be stable on Rh-tips? 94/95 (1996) 212
- Ringer, S.P., K. Hono, I.J. Polmear and T. Sakurai, Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys 94/95 (1996) 253
- Russell, K.F., see Miller, M.K.
- Russell, K.F., see Pareige, P.J.
- Russell, K.F., see Miller, M.K.
- Russell, K.F., see Miller, M.K.
- Russell, K.F., see Miller, M.K.
- Safa, H., see Maïssa, S.
- Saito, Y., see Hata, K.
- 94/95 (1996) 288
- 94/95 (1996) 362
- 94/95 (1996) 378
- 94/95 (1996) 391
- 94/95 (1996) 113
- 94/95 (1996) 247
- 94/95 (1996) 156
- 94/95 (1996) 306
- 94/95 (1996) 136
- 94/95 (1996) 156

- Sakurai, T., see Ringer, S.P.
- Sakurai, T., see Bakhtizin, R.Z.
- Sakurai, T., see Jeon, D.
- Satoh, H., H. Nakane and H. Adachi, LEED and XPS studies of the ZrO₂/W(100) surface
- Schiller, C., see Fransen, M.J.
- Schmuck, C., F. Danoix, P. Caron, A. Hauet and D. Blavette, Atomic scale investigation of ordering and precipitation processes in a model Ni-Cr-Al alloy
- Seidman, D.N., see Chan, D.K.
- Seidman, D.N., see Shashkov, D.A.
- Sekatskii, S.K., see Konopsky, V.N.
- Senft, D.C., Atomic jump lengths in surface diffusion: experiment and theory
- Sharma, R.B., A.D. Adsool, N. Pradeep and D.S. Joag, Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe-hole field emission microscopy
- Shashkov, D.A. and D.N. Seidman, Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces
- Shih, K.L., see Tsong, T.T.
- Sijbrandij, S.J., A. Cerezo, T.J. Godfrey and G.D.W. Smith, Improvements in the mass resolution of the three-dimensional atom probe
- Sijbrandij, S.J., see Cerezo, A.
- Smith, G.D.W., see Sijbrandij, S.J.
- Smith, G.D.W., see Cerezo, A.
- Son, U.T., see Zhimov, V.V.
- Stepanova, A.N., see Givargizov, E.I.
- Stiller, K., F. Danoix and A. Bostel, Investigation of precipitation in a new maraging stainless steel
- Stiller, K., see Ivchenko, V.A.
- Stiller, K., see Thuvander, M.
- Su, W.B., see Tsong, T.T.
- Suchorski, Yu., J. Bęben, V.K. Medvedev and J.H. Block, Study of CO surface diffusion on CO/W(111) by analysis of CO⁺ field ion rate fluctuations
- Suchorski, Yu., V.K. Medvedev and J.H. Block, Noble-gas-like mechanism of localized field ionization of nitrogen as detected by field ion appearance energy spectroscopy
- Suchorski, Yu., see Medvedev, V.K.
- Suvorov, A.L. and D.E. Dolin, Field ion microscopy study of the interactions be-
- 94/95 (1996) 253
94/95 (1996) 478
94/95 (1996) 493

94/95 (1996) 247
94/95 (1996) 107

94/95 (1996) 273
94/95 (1996) 409
94/95 (1996) 416
94/95 (1996) 148

94/95 (1996) 231

94/95 (1996) 177

94/95 (1996) 416
94/95 (1996) 472

94/95 (1996) 428
94/95 (1996) 457
94/95 (1996) 428
94/95 (1996) 457
94/95 (1996) 144
94/95 (1996) 117

94/95 (1996) 326
94/95 (1996) 267
94/95 (1996) 343
94/95 (1996) 472

94/95 (1996) 207

94/95 (1996) 217
94/95 (1996) 200
- tween self interstitials and impurities in metals
- Sytkin, N.N., see Ivchenko, V.A.
- Tan, J., see Maïssa, S.
- Thomson, R.C. and M.K. Miller, An atom probe study of cementite precipitation in autotempered martensite in an Fe-Mn-C alloy
- Thuvander, M., K. Stiller, D. Blavette and A. Menand, Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials
- Thuvander, M., see Zackrisson, J.
- Tong, L., see Wang, B.P.
- Tsong, T.T., C.S. Chang, W.B. Su and K.L. Shih, New STM image structures in the confined regions of the Pt(001) surface
- Tsong, T.T., see Chen, C.L.
- van Rooy, T.L., see Fransen, M.J.
- Vladimirov, V.V., V.N. Gorshkov and D.V. Mozyrskey, Microdroplet emission on liquid metal surface at the development of Rayleigh instabilities – applications in cosmos
- Voss, C. and N. Kruse, Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips
- Wang, B.P. and L. Tong, A study of the optimum field emitter shape for vacuum electronics applications
- Wang, R.L.C., see Forbes, R.G.
- Wilshaw, P.R., see Nicolaescu, D.
- Wollenberger, H., see Al-Kassab, T.
- Yamamoto, M., see Nishikawa, K.
- Zackrisson, J., M. Thuvander, P. Lindahl and H.-O. Andrén, Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content
- Zhirnov, V.V., W.B. Choi, J.J. Cuomo and J.J. Hren, Diamond coated Si and Mo field emitters: diamond thickness effect
- Zhirnov, V.V., L. Bormatova, E.I. Givargizov, P.S. Plekhanov, U.T. Son, A.V. Gal'detsky and B.A. Belyavsky, Field emission properties of Au-Si eutectic
- Zhirnov, V.V., see Givargizov, E.I.
- 94/95 (1996) 384
94/95 (1996) 267

94/95 (1996) 136

94/95 (1996) 313

94/95 (1996) 343
94/95 (1996) 351
94/95 (1996) 101

94/95 (1996) 472
94/95 (1996) 224

94/95 (1996) 107

94/95 (1996) 171

94/95 (1996) 186

94/95 (1996) 101
94/95 (1996) 60
94/95 (1996) 79
94/95 (1996) 306

94/95 (1996) 295

94/95 (1996) 351

94/95 (1996) 123

94/95 (1996) 144
94/95 (1996) 117



ELSEVIER

Subject index

Alkali metals

- Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchocki and J.H. Block
Scanning tunneling microscopy of charge transfer on the Si(111)7 × 7 surface, D. Jeon, T. Hashizume and T. Sakurai

94/95 (1996) 200
94/95 (1996) 493

Alloys

- Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block
Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai
AP-FIM analysis of ordered Cu₃Au–(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller
Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell
Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa
Observation of molybdenum–nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén
Grain boundary precipitation and segregation in Ni–16Cr–9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand
The segregation behaviour of a Pt₉₀Rh₁₀ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch

94/95 (1996) 238
94/95 (1996) 253
94/95 (1996) 267
94/95 (1996) 288
94/95 (1996) 295
94/95 (1996) 320
94/95 (1996) 343
94/95 (1996) 403

Aluminium

- Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes, N. Pupeter, T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel
Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai
3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand
Atomic scale investigation of ordering and precipitation processes in a model Ni–Cr–Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette
Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell
Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami

94/95 (1996) 94
94/95 (1996) 253
94/95 (1996) 255
94/95 (1996) 261
94/95 (1996) 273
94/95 (1996) 288
94/95 (1996) 334

Atomic probe analysis

- Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai
3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand
AP-FIM analysis of ordered Cu₃Au–(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller
Atomic scale investigation of ordering and precipitation processes in a model Ni–Cr–Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette

94/95 (1996) 253
94/95 (1996) 261
94/95 (1996) 267
94/95 (1996) 273

- Microstructural development in PWA-1480 electron beam welds – an atom probe field ion microscopy study, S.S. Babu, S.A. David and M.K. Miller 94/95 (1996) 280
- Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell 94/95 (1996) 288
- Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambreland, F. Danoix and D. Blavette 94/95 (1996) 306
- An atom probe study of cementite precipitation in autotempered martensite in an Fe–Mn–C alloy, R.C. Thomson and M.K. Miller 94/95 (1996) 313
- Observation of molybdenum–nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén 94/95 (1996) 320
- Investigation of precipitation in a new maraging stainless steel, K. Stiller, F. Danoix and A. Bostel 94/95 (1996) 326
- Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami 94/95 (1996) 334
- Grain boundary precipitation and segregation in Ni–16Cr–9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand 94/95 (1996) 343
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén 94/95 (1996) 351
- A specimen preparation technique for atom probe analysis of the near-surface region of cemented carbides, A. Kvist, H.-O. Andrén and L. Lundin 94/95 (1996) 356
- APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation, P.J. Pareige, K.F. Russell and M.K. Miller 94/95 (1996) 362
- Characterization of neutron-induced copper-enriched clusters in pressure vessel steel weld: an APFIM study, P. Pareige and M.K. Miller 94/95 (1996) 370
- APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell 94/95 (1996) 378
- Phase separation in the Fe–Cr–Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell 94/95 (1996) 391
- The segregation behaviour of a Pt₉₀Rh₁₀ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch 94/95 (1996) 403
- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409
- Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman 94/95 (1996) 416
- Improvement of the detection efficiency of channel plate electron multiplier for atom probe application, B. Deconihout, P. Gerard, M. Bouet and A. Bostel 94/95 (1996) 422
- Improvements in the mass resolution of the three-dimensional atom probe, S.J. Sijbrandij, A. Cerezo, T.J. Godfrey and G.D.W. Smith 94/95 (1996) 428
- Optimal field pulsing for atom probes with counter electrodes, D.J. Larson, P.P. Camus and T.F. Kelly 94/95 (1996) 434
- Analytic treatment of charge cloud overlaps: an improvement of the tomographic atom probe efficiency, P. Bas, A. Bostel, G. Grancher, B. Deconihout and D. Blavette 94/95 (1996) 442
- Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu₃Au, S. Duval, S. Chambreland and B. Deconihout 94/95 (1996) 449
- Data analysis in the optical PoSAP, A. Cerezo, J.M. Hyde, S.J. Sijbrandij and G.D.W. Smith 94/95 (1996) 457
- Electrostatic analysis of local-electrode atom probes, S.S. Bajikar, T.F. Kelly and P.P. Camus 94/95 (1996) 464
- Boron**
- Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- Cadmium**
- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409
- Carbides**
- A specimen preparation technique for atom probe analysis of the near-surface region of cemented carbides, A. Kvist, H.-O. Andrén and L. Lundin 94/95 (1996) 356

Carbon

- Electron emission from carbon fibre tips, M.S. Mousa
 Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed
 Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 129
 94/95 (1996) 300
 94/95 (1996) 351

- Sharma, A.D. Adsool, N. Pradeep and D.S. Joag
 Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed
 Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 177
 94/95 (1996) 300
 94/95 (1996) 351

Carbon monoxide

- Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip, M.C. Reckzügel, V. Gorodetskii and J.H. Block
 Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchorski and J.H. Block
 Study of CO surface diffusion on CO/W(111) by analysis of CO⁺ field ion rate fluctuations, Yu. Suchorski, J. Bében, V.K. Medvedev and J.H. Block

94/95 (1996) 194
 94/95 (1996) 200
 94/95 (1996) 207

Computer simulations

- A study of the optimum field emitter shape for vacuum electronics applications, B.P. Wang and L. Tong

94/95 (1996) 101

Copper

- Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes, N. Pupeter, T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel

94/95 (1996) 94

- Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai

94/95 (1996) 253

- 3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand

94/95 (1996) 261

- AP-FIM analysis of ordered Cu₃Au–(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller

94/95 (1996) 267

- Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman

94/95 (1996) 416

- Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu₃Au, S. Duval, S. Chambreland and B. Deconihout

94/95 (1996) 449

Diamond

- Field emission characteristics of polycrystalline and single-crystalline diamond grown on Si tips, E.I. Givargizov, V.V. Zhirnov, A.N. Stepanova, P.S. Plekhanov and R.I. Kozlov

94/95 (1996) 117

- Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren

94/95 (1996) 123

Catalysis

- Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse

94/95 (1996) 186

Chromium

- Atomic scale investigation of ordering and precipitation processes in a model Ni–Cr–Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette

94/95 (1996) 273

- Grain boundary precipitation and segregation in Ni–16Cr–9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand

94/95 (1996) 343

- Comparison of the rate of decomposition in Fe–45%Cr, Fe–45%Cr–5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell

94/95 (1996) 398

Cobalt

- Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe-hole field emission microscopy, R.B.

Electron emission

Electron emission from carbon fibre tips,
M.S. Mousa

94/95 (1996) 129

Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block

94/95 (1996) 238

Electron microscopy

Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren

94/95 (1996) 123

Precipitation processes during the early stages of ageing in Al-Cu-Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai

94/95 (1996) 253

AP-FIM analysis of ordered Cu₃Au-(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller

94/95 (1996) 267

Nanocrystallization of a Co-Nb-B-C metallic glass, T.A. Lusby and A.J. Melmed

94/95 (1996) 300

Investigation of precipitation in a new maraging stainless steel, K. Stiller, F. Danoix and A. Bostel

94/95 (1996) 326

Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand

94/95 (1996) 343

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle

94/95 (1996) 409

Field desorption

Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block

94/95 (1996) 238

Field effect

On the theory of helium field adsorption, R.G. Forbes, H.J. Kreuzer and R.L.C. Wang

94/95 (1996) 60

Some comments on the simultaneous desorption of ³He and ⁴He, R.G. Forbes

94/95 (1996) 73

Noble-gas-like mechanism of localized field ionization of nitrogen as detected by field ion appearance energy spectroscopy, Yu. Suchorski, V.K. Medvedev and J.H. Block

94/95 (1996) 217

Field electron microscopy

Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse

94/95 (1996) 186

Field emission

Developing and using the field emitter as a high intensity electron source, F. Charbonnier

94/95 (1996) 26

Modelling of the field emission microtriode with emitter covered with porous silicon, D. Nicolaescu, V. Filip and P.R. Wilshaw

94/95 (1996) 79

Modelling of a magnetic sensor based on vacuum field emission, D. Nicolaescu and V. Filip

94/95 (1996) 87

Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes, N. Pupeter, T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel

94/95 (1996) 94

A study of the optimum field emitter shape for vacuum electronics applications, B.P. Wang and L. Tong

94/95 (1996) 101

Characterization of ultrasharp field emitters by projection microscopy, M.J. Fransen, E.P.N. Damen, C. Schiller, T.L. van Rooy, H.B. Groen and P. Kruit

94/95 (1996) 107

Fabrication of transition metal nitride field emitters, M. Endo, H. Nakane and H. Adachi

94/95 (1996) 113

Field emission characteristics of polycrystalline and single-crystalline diamond grown on Si tips, E.I. Givargizov, V.V. Zhirnov, A.N. Stepanova, P.S. Plekhanov and R.I. Kozlov

94/95 (1996) 117

Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren

94/95 (1996) 123

Study of luminous phenomena observed on contaminated metallic surfaces submitted to high RF fields, S. Maissa, T. Junquera, M. Fouaidy, A. Le Goff, B. Bonin, M. Luong, H. Safa and J. Tan

94/95 (1996) 136

Field emission properties of Au-Si eutectic, V.V. Zhirnov, L. Bormatova, E.I. Givargizov, P.S. Plekhanov, U.T. Son, A.V. Galdetsky and B.A. Belyavsky

94/95 (1996) 144

| | | | |
|---|------------------|---|------------------|
| Laser photoelectron projection microscopy with subwavelength spatial resolution, V.N. Konopsky, S.K. Sekatskii and V.S. Letokhov | 94/95 (1996) 148 | Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai | 94/95 (1996) 253 |
| Control of formation sites for liquid-Li cones on a W⟨100⟩ tip by means of the remolding method, K. Hata, F. Nakayama, Y. Saito and A. Ohshita | 94/95 (1996) 156 | 3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand | 94/95 (1996) 261 |
| Microdroplet emission on liquid metal surface at the development of Rayleigh instabilities – applications in cosmos, V.V. Vladimirov, V.N. Gorshkov and D.V. Mozyrsky | 94/95 (1996) 171 | AP-FIM analysis of ordered Cu ₃ Au–(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller | 94/95 (1996) 267 |
| Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip, M.C. Reckzügel, V. Gordetskii and J.H. Block | 94/95 (1996) 194 | Microstructural development in PWA-1480 electron beam welds – an atom probe field ion microscopy study, S.S. Babu, S.A. David and M.K. Miller | 94/95 (1996) 280 |
| Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchorski and J.H. Block | 94/95 (1996) 200 | Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell | 94/95 (1996) 288 |
| Field emission from thin liquid metal films, J. Mitterauer | 94/95 (1996) 161 | Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa | 94/95 (1996) 295 |
| Field emission microscopy | | Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed | 94/95 (1996) 300 |
| Early field emission studies of semiconductors, G. Fursey | 94/95 (1996) 44 | Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambreland, F. Danoix and D. Blavette | 94/95 (1996) 306 |
| Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe-hole field emission microscopy, R.B. Sharma, A.D. Adsool, N. Pradeep and D.S. Joag | 94/95 (1996) 177 | An atom probe study of cementite precipitation in autotempered martensite in an Fe–Mn–C alloy, R.C. Thomson and M.K. Miller | 94/95 (1996) 313 |
| The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle | 94/95 (1996) 409 | Observation of molybdenum–nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén | 94/95 (1996) 320 |
| Field ion microscopy | | Investigation of precipitation in a new maraging stainless steel, K. Stiller, F. Danoix and A. Bostel | 94/95 (1996) 326 |
| Field-ion imaging old and new, R.G. Forbes | 94/95 (1996) 1 | Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami | 94/95 (1996) 334 |
| Recollections of Erwin Müller's laboratory: the development of FIM (1951–1956), A.J. Melmed | 94/95 (1996) 17 | Grain boundary precipitation and segregation in Ni–16Cr–9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand | 94/95 (1996) 343 |
| Local field and potential barrier in tunneling processes, M.M. Mollicone, L.C.O. Dascal and C.M.C. de Castilho | 94/95 (1996) 68 | Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén | 94/95 (1996) 351 |
| Oscillatory behavior in the catalytic reduction of NO and NO ₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse | 94/95 (1996) 186 | APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation, P.J. Pareige, K.F. Russell and M.K. Miller | 94/95 (1996) 362 |
| Study of CO surface diffusion on CO/W(111) by analysis of CO ⁺ field ion rate fluctuations, Yu. Suchorski, J. Bében, V.K. Medvedev and J.H. Block | 94/95 (1996) 207 | Characterization of neutron-induced copper-enriched clusters in pressure vessel steel | |
| Surface diffusion and surface atomic roughness on Ir(001) surface and terraces, C.L. Chen, T.T. Tsong and T.E. Mitchell | 94/95 (1996) 224 | | |

| | | | |
|--|------------------|---|------------------|
| weld: an APFIM study, P. Pareige and M.K. Miller | 94/95 (1996) 370 | NLSDA calculations for H ₃ on Rh ₅ including high electric fields: Could linear H ₃ be stable on Rh-tips?, M.C. Reckzügel and J.H. Block | 94/95 (1996) 212 |
| APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell | 94/95 (1996) 378 | Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni ₃ Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block | 94/95 (1996) 238 |
| Field ion microscopy study of the interactions between self interstitials and impurities in metals, A.L. Suvorov and D.E. Dolin | 94/95 (1996) 384 | <i>Interfaces</i> | |
| Phase separation in the Fe-Cr-Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell | 94/95 (1996) 391 | The chemistry and structure of (222) CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle | 94/95 (1996) 409 |
| Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell | 94/95 (1996) 398 | <i>Ion bombardment</i> | |
| Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman | 94/95 (1996) 416 | Field ion microscopy study of the interactions between self interstitials and impurities in metals, A.L. Suvorov and D.E. Dolin | 94/95 (1996) 384 |
| Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu ₃ Au, S. Duval, S. Chambrelan and B. Deconihout | 94/95 (1996) 449 | <i>Iridium</i> | |
| <i>Field ionisation</i> | | Surface diffusion and surface atomic roughness on Ir(001) surface and terraces, C.L. Chen, T.T. Tsong and T.E. Mitchell | 94/95 (1996) 224 |
| Some comments on the simultaneous desorption of ³ He and ⁴ He, R.G. Forbes | 94/95 (1996) 73 | <i>Iron</i> | |
| <i>Glass</i> | | Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand | 94/95 (1996) 343 |
| Nanocrystallization of a Co-Nb-B-C metallic glass, T.A. Lusby and A.J. Melmed | 94/95 (1996) 300 | Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell | 94/95 (1996) 398 |
| <i>Gold</i> | | <i>Low energy electron diffraction</i> | |
| Field emission properties of Au-Si eutectic, V.V. Zhirnov, L. Bormatova, E.I. Givargizov, P.S. Plekhanov, U.T. Son, A.V. Gal'detsky and B.A. Belyavsky | 94/95 (1996) 144 | LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi | 94/95 (1996) 247 |
| AP-FIM analysis of ordered Cu ₃ Au-(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller | 94/95 (1996) 267 | STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai | 94/95 (1996) 478 |
| Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu ₃ Au, S. Duval, S. Chambrelan and B. Deconihout | 94/95 (1996) 449 | <i>Magnesium</i> | |
| <i>Hydrogen</i> | | Precipitation processes during the early stages of ageing in Al-Cu-Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai | 94/95 (1996) 253 |
| Oscillatory behavior in the catalytic reduction of NO and NO ₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse | 94/95 (1996) 186 | | |

Magnesium oxide

Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman

94/95 (1996) 416

Manganese

An atom probe study of cementite precipitation in autotempered martensite in an Fe-Mn-C alloy, R.C. Thomson and M.K. Miller

94/95 (1996) 313

Mass spectroscopy

Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block

94/95 (1996) 238

Molybdenum

Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren

94/95 (1996) 123

Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell

94/95 (1996) 288

Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa

94/95 (1996) 295

Observation of molybdenum-nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén

94/95 (1996) 320

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermet with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

Multilayers

Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelan, F. Danoix and D. Blavette

94/95 (1996) 306

Nickel

Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-

doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block

94/95 (1996) 238

Atomic scale investigation of ordering and precipitation processes in a model Ni-Cr-Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette

94/95 (1996) 273

Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell

94/95 (1996) 288

Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa

94/95 (1996) 295

Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelan, F. Danoix and D. Blavette

94/95 (1996) 306

Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand

94/95 (1996) 343

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermet with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell

94/95 (1996) 398

Niobium

Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes, N. Pupeter, T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel

94/95 (1996) 94

Fabrication of transition metal nitride field emitters, M. Endo, H. Nakane and H. Adachi

94/95 (1996) 113

Nanocrystallization of a Co-Nb-B-C metallic glass, T.A. Lusby and A.J. Melmed

94/95 (1996) 300

Nitrides

Fabrication of transition metal nitride field emitters, M. Endo, H. Nakane and H. Adachi

94/95 (1996) 113

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermet with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

Nitrogen

Noble-gas-like mechanism of localized field ionization of nitrogen as detected by field ion appearance energy spectroscopy, Yu. Suchorski, V.K. Medvedev and J.H. Block

Observation of molybdenum-nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén

94/95 (1996) 217

94/95 (1996) 320

Nitrogen dioxide

Oscillatory behavior in the catalytic reduction of NO and NO_2 with hydrogen on Pt field emitter tips, C. Voss and N. Kruse

94/95 (1996) 186

Nitrous oxide

Oscillatory behavior in the catalytic reduction of NO and NO_2 with hydrogen on Pt field emitter tips, C. Voss and N. Kruse

94/95 (1996) 186

Oxidation

Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni_3Zr , T.R. Hess, D.L. Cocke, G. Abend and J.H. Block

94/95 (1996) 238

Oxides

The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle

94/95 (1996) 409

Palladium

Atomic jump lengths in surface diffusion: experiment and theory, D.C. Senft

94/95 (1996) 231

Phase transitions

Phase separation in the Fe-Cr-Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell

94/95 (1996) 391

Phosphorus

APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell

94/95 (1996) 378

Photoelectron spectroscopy

LEED and XPS studies of the $\text{ZrO}/\text{W}(100)$ surface, H. Satoh, H. Nakane and H. Adachi

94/95 (1996) 247

Platinum

Oscillatory behavior in the catalytic reduction of NO and NO_2 with hydrogen on Pt field emitter tips, C. Voss and N. Kruse

94/95 (1996) 186

Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip, M.C. Reckzügel, V. Gorodetskii and J.H. Block

94/95 (1996) 194

The segregation behaviour of a $\text{Pt}_{90}\text{Rh}_{10}$ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch

94/95 (1996) 403

New STM image structures in the confined regions of the $\text{Pt}(001)$ surface, T.T. Tsong, C.S. Chang, W.B. Su and K.L. Shih

94/95 (1996) 472

Rhenium

Surface diffusion and surface atomic roughness on $\text{Ir}(001)$ surface and terraces, C.L. Chen, T.T. Tsong and T.E. Mitchell

94/95 (1996) 224

Rhodium

Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchorski and J.H. Block

94/95 (1996) 200

NLSDA calculations for H_3 on Rh_5 including high electric fields: Could linear H_3 be stable on Rh-tips?, M.C. Reckzügel and J.H. Block

94/95 (1996) 212

The segregation behaviour of a $\text{Pt}_{90}\text{Rh}_{10}$ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch

94/95 (1996) 403

Scanning tunneling microscopy

New STM image structures in the confined regions of the $\text{Pt}(001)$ surface, T.T. Tsong, C.S. Chang, W.B. Su and K.L. Shih

94/95 (1996) 472

STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai

94/95 (1996) 478

STM observation of rapidly cooled Si(111) vicinal surfaces, F. Katsuki and K. Kamei

Scanning tunneling microscopy of charge transfer on the Si(111) 7×7 surface, D. Jeon, T. Hashizume and T. Sakurai

Silicon

Modelling of the field emission microtriode with emitter covered with porous silicon, D. Nicolaescu, V. Filip and P.R. Wilshaw

Field emission characteristics of polycrystalline and single-crystalline diamond grown on Si tips, E.I. Givargizov, V.V. Zhirnov, A.N. Stepanova, P.S. Plekhanov and R.I. Kozlov

Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren

Field emission properties of Au-Si eutectic, V.V. Zhirnov, L. Bormatova, E.I. Givargizov, P.S. Plekhanov, U.T. Son, A.V. Galdetsky and B.A. Belyavsky

STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai

STM observation of rapidly cooled Si(111) vicinal surfaces, F. Katsuki and K. Kamei

Scanning tunneling microscopy of charge transfer on the Si(111) 7×7 surface, D. Jeon, T. Hashizume and T. Sakurai

Silver

The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle

Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman

Sputter deposition

Characterization of sputter-deposited multi-layers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambreland, F. Danoix and D. Blavette

94/95 (1996) 485

94/95 (1996) 493

94/95 (1996) 79

94/95 (1996) 117

94/95 (1996) 123

94/95 (1996) 144

94/95 (1996) 478

94/95 (1996) 485

94/95 (1996) 493

Fe-Mn-C alloy, R.C. Thomson and M.K. Miller

Observation of molybdenum-nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén

Investigation of precipitation in a new maraging stainless steel, K. Stiller, F. Danoix and A. Bostel

Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami

APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation, P.J. Pareige, K.F. Russell and M.K. Miller

Characterization of neutron-induced copper-enriched clusters in pressure vessel steel weld: an APFIM study, P. Pareige and M.K. Miller

APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell

Phase separation in the Fe-Cr-Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell

Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell

94/95 (1996) 313

94/95 (1996) 320

94/95 (1996) 326

94/95 (1996) 334

94/95 (1996) 362

94/95 (1996) 370

94/95 (1996) 378

94/95 (1996) 391

94/95 (1996) 398

94/95 (1996) 478

Strontium

STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai

Surface diffusion

Atomic jump lengths in surface diffusion: experiment and theory, D.C. Senft

94/95 (1996) 231

Tantalum

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

Thin films

Characterization of sputter-deposited multi-layers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naun-

Steel

An atom probe study of cementite precipitation in autotempered martensite in an

94/95 (1996) 306

| | | | |
|--|------------------|---|------------------|
| dorf, H. Wollenberger, S. Chambreland, F. Danoix and D. Blavette | 94/95 (1996) 306 | Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cer- mets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén | 94/95 (1996) 351 |
| Titanium | | | |
| Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cer- mets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén | 94/95 (1996) 351 | Field ion microscopy study of the interac- tions between self interstitials and impu- rities in metals, A.L. Suvorov and D.E. Dolin | 94/95 (1996) 384 |
| Tungsten | | | |
| Control of formation sites for liquid-Li cones on a W(100) tip by means of the re- molding method, K. Hata, F. Nakayama, Y. Saito and A. Ohshita | 94/95 (1996) 156 | Local field and potential barrier in tunneling processes, M.M. Mollicone, L.C.O. Da- cal and C.M.C. de Castilho | 94/95 (1996) 68 |
| Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe- hole field emission microscopy, R.B. Sharma, A.D. Adsool, N. Pradeep and D.S. Joag | 94/95 (1996) 177 | Work function | |
| Study of CO surface diffusion on CO/ W(111) by analysis of CO ⁺ field ion rate fluctuations, Yu. Suchorski, J. Bęben, V.K. Medvedev and J.H. Block | 94/95 (1996) 207 | LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi | 94/95 (1996) 247 |
| Noble-gas-like mechanism of localized field ionization of nitrogen as detected by field ion appearance energy spec- troscopy, Yu. Suchorski, V.K. Medve- dev and J.H. Block | 94/95 (1996) 217 | Zirconium | |
| Atomic jump lengths in surface diffusion: experiment and theory, D.C. Senft | 94/95 (1996) 231 | Pulsed field desorption mass spectrometric study of the oxidation of hydrogen- doped Ni ₃ Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block | 94/95 (1996) 238 |
| LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi | 94/95 (1996) 247 | LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi | 94/95 (1996) 247 |
| | | Characterization of sputter-deposited multi- layers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naun- dorf, H. Wollenberger, S. Chambreland, F. Danoix and D. Blavette | 94/95 (1996) 306 |